## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:
Application No.:
Date Filed:

Man Hon Cheng et al.

Group Art Unit: Examiner:

Concurrently Herewith

Title:

METHOD OF ATTACHING A DIE TO A SUBSTRATE

## INFORMATION DISCLOSURE STATEMENT (IDS)

**Commissioner For Patents** Alexandria, VA 22313

SIR:

copy o	ched For ademark f each ci fter June	Office. Pursuant to the Office U.S. patent and each U.S. patent and each U.S. 2003 and for all interests.	equently identified herein, are fice waiving the requirement LS, patent application publication.	C.F.R. §§1.97 and 1.98, the references lister for consideration by the United States Patent under 37 CFR 1.98 (a)(2)(i) for submitting ation for all U.S. national patent application we entered the national stage under 35 USC with.
I.	COPIE a.⊠ b.□	A legible copy of (i) ea caused it to be listed; an included herewith. Any patents, publication enclosed herewith were	ach U.S. and foreign patents; d (iii) all other information on ns or other information whice previously cited by or subn	(ii) each publication or that portion which r that portion which caused it to be listed, is the are listed on PTO/SB/08 which are no mitted to the PTO in one of the following filing date under 35 U.S.C. §120:
		U.S. Serial Number		U.S. Filing Date
ш. 🗆	b.  c.  CROSS The Ex related	Except as may be indicated information are in the En A concise explanation of is not in the English language. The following additional EREFERENCE TO RELATED aminer is advised that the to the present application	glish language (concise explar the relevance of all patents, uage is as follows: information is provided for the TED APPLICATION(S) following co-pending applicate	ion, all of the patents, publications or other nation not required).  publications or other information listed that the Examiner's consideration:  tion(s) contain(s) subject matter that may be applications to the Examiner's attention.
	Serial N		Filing Date	Art Unit
			<u>FEES</u>	
IV.	THIS II a. ☒  b. ☐  c. ☐  d. ☐	within three months of the application under § 1.53(c within three months of the international application (a before the mailing date of statement is required. before the mailing date	1) (37 C.F.R. §1.97(b)(1)). No the date of entry of the nati 37 C.F.R. §1.97(b)(2)). No fe f a first Office Action on the	offication other than a continued prosecution to fee or statement is required. Since or statement is required. Since or statement is required. The merits (37 C.F.R. §1.97(b)(3)). No fee or the filing of a request for continued.

befo und	ore the maili ler 37 C.F.R. 97(c)). No state	§1.311, or an action that other	e Action under 37 C.F.R. §1.113, a Notice of Allowance wise closes prosecution in the application (See 37 C.F.R. account 502117 the fee set forth in 37 C.F.R. §1.17(p).
	or before pay a staten	EING FILED UNDER 37 C.F.R. ment of the issue fee and is acconent under 37 C.F.R. §1.97(e) as deposit account 502117 the peti	mpanied by the following: provided below; and
	e undersigned leach ite Office i no item Office i after maindividu stateme some o foreign containe foreign informa the IDS applicat inquiry,	n a counterpart foreign application of information contained in the in a counterpart foreign applicate aking reasonable inquiry, no ited all designated in 37 C.F.R. 1. Int, or f the items of information con Patent Office. As to this informed in the IDS was cited in a coapplication not more than three ation, the undersigned hereby states was cited in a communication or, to the knowledge of the no item of information contained.	the IDS was cited in a communication from a foreign Patent on not more than three months prior to the filing of IDS; or a IDS was cited in a communication from a foreign Patent ion, and to knowledge of the person signing the statement in of information contained in the IDS was known to any 56(c) more than three months prior to the filing of this tained in the IDS were cited in a communication from a nation, the undersigned states that each item of information information from a foreign Patent Office in a counterpart months prior to the filing of this IDS. As to the remaining ites that no item of this remaining information contained in from a foreign Patent Office in a counterpart foreign he person signing the statement after making reasonable and in the IDS was known to any individual designated in 37 prior to the filing of this statement.
VIII. PA	Please of If Appli Commis	c in the amount of is echarge Deposit Account 502117 icant has overlooked any additions in hereby authorized to c	in the amount of \$180.00 for the above-indicated fee(s). in the amount of \$180.00 for the above-indicated fee(s). nal fees, or if any overpayment has been made, the redit or debit Deposit Account 502117. or Deposit Account charges and debits.
constitute st	atutory prior		e interests of candor and without any admission that they nticipates the invention or which would render the same ordinary skill in the art.
is determined	d that this ID	S has been filed under the wron	is IDS, he/she is requested to contact the undersigned. If it g rule, the PTO is requested to consider this IDS under the propriate fee to Deposit Account No. 502117.
	·		Respectfully submitted, Man Hon Cheng et al.
MOTOROL. Customer Nu	ımber 23125		Michael P. Noonan Attorney for Applicant(s) Reg. No. 42,038 Tel. 512.996.6839
Enclosures:		Information Disclosure Statement by Applicant References Foreign Search Report Other:	

	· · · · · · · · · · · · · · · · · · ·				
			Complete if Known		
INFOR	MATION DIGGI COLLEG	Application Number	10/090,094		
	RMATION DISCLOSURE	Filing Date	March 4, 2002		
STATE	EMENT BY APPLICANT	First Named Inventor	Man Hon Cheng		
		Group Art Unit	2827		
(use as many sheets as	necessary)	Examiner Name	Luan C. Thai		
Sheet	of	Attomey Docket Number	SC11852HP		

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Document Number Number -Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	AA	5,122,860	06/16/1992	Kikuchi et al.		
	AB	6,265,530 B1	07/24/2001	Herr et al.		
	AC	2001/0012680 A1	08/09/2001	Cobbley et al.		
	AD	2002/0182774 A1	12/05/2002	Heckman		
<del></del>						
			ļ			
	-		<del></del>	<u> </u>		

FOREIGN PATENT DOCUMENTS							
Examine r Initials*	Cite No. 1	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т6	
			<del> </del>				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	AE	National Semiconductor Corporation, "Semiconductor Packaging Assembly Technology", August 1999, pp. 1-8.	-
	AF	National Semiconductor Corporation, "Plastic Package Moisture-Induced Cracking", August 1999, pp. 1-5.	
	AG	Han et al., "Three-Dimensional Simulation of Microchip Encapsulation Process", Dept. of Mechanical Engineering-Engineering Mechanics, Michigan Technological University, Houghton, Michigan 49931, pp. 1-17 and Figs. 1-11.	

Examiner			
		Data	
Signature		Date	
		Considered	
YAMINED: Initial if	of connect and the desired and	Considered	1

CAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.